

LGP 2**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question. **MAKE SURE** you also show **ALL** your work in finding an answer.

- _____ 1. 3 more than twice a number is 7. What is the number?
a. 11 b. 5 c. 17 d. 2
- _____ 2. The n th term of a number pattern is $5n + 3$.
What is the term number for a term value of 78?
a. 70 b. 76 c. 15 d. 78
- _____ 3. Solve this equation. $2(x + 5) = 24$
a. 7 b. 2 c. 17 d. 12

Short Answer

Please show all work.

4. 9 less than 4 times a number is 27. Write an equation and find the number.
5. The n th term of a number pattern is $6n + 4$.
a) What is the value of the 10th term?
b) What is the term number for a term value of 76?
6. Sean paid \$81 to rent a boat to go fishing. The rental rate was \$25 plus \$8 per hour.
For how many hours did Sean rent the boat?
Write an equation, then solve the problem.

LGP 2

Answer Section

MULTIPLE CHOICE

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|-----------|-----------------------------|---|
| 1. ANS: D | DIF: Moderate | REF: 10.5 Solving Equations Algebraically |
| LOC: 8m64 | TOP: Patterning and Algebra | KEY: Knowledge and Understanding |
| 2. ANS: C | DIF: Moderate | REF: 10.5 Solving Equations Algebraically |
| LOC: 8m63 | TOP: Patterning and Algebra | KEY: Knowledge and Understanding |
| 3. ANS: A | DIF: Moderate | REF: 10.5 Solving Equations Algebraically |
| LOC: 8m64 | TOP: Patterning and Algebra | KEY: Knowledge and Understanding |

SHORT ANSWER

4. ANS:
Let x be the number.
 $4x - 9 = 27$
 $x = 9$
The number is 9.
- DIF: Moderate REF: 10.5 Solving Equations Algebraically
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5. ANS:
a) 64
b) 12
- DIF: Moderate REF: 10.5 Solving Equations Algebraically
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6. ANS:
Let x be the number of hours.
 $25 + 8x = 81$
 $x = 7$
Sean rent the boat for 7 hours.
- DIF: Moderate REF: 10.5 Solving Equations Algebraically
LOC: 8m64 TOP: Patterning and Algebra KEY: Application